

Strategic and Nuclear Deterrence Command and Control SPO

SND C² SPO



New Horizons Symposium

Col Walter Avila
Deputy SPD
ESC/ND
(617) 377-9957



MEECN



MWSSS



NMD



CMAH



CMC

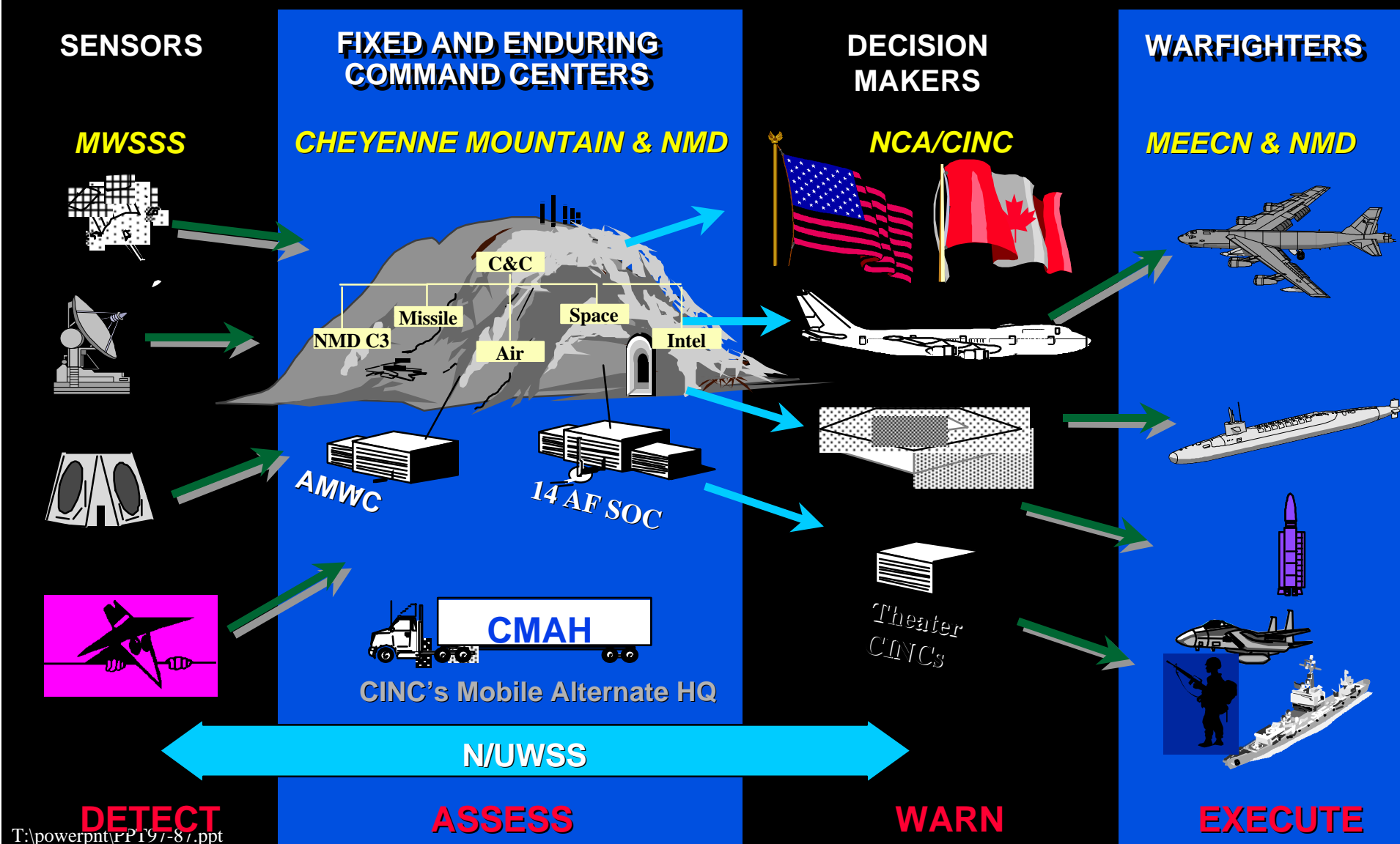
Outline

SND C² SPO

- ◆ Organization
- ◆ Mission
- ◆ Overview: New Projects
- ◆ Industry opportunities
- ◆ Future Needs/Trends

Strategic and Nuclear Deterrence Environment

SND C² SPO



SND C2 SPO Mission

SND C² SPO

Rapidly acquire, and continuously support and maintain integrated, cost effective, highly reliable command and control capabilities for space and strategic customers to enable air and space superiority, global awareness, and precision engagement in peacetime and throughout all phases of conflict

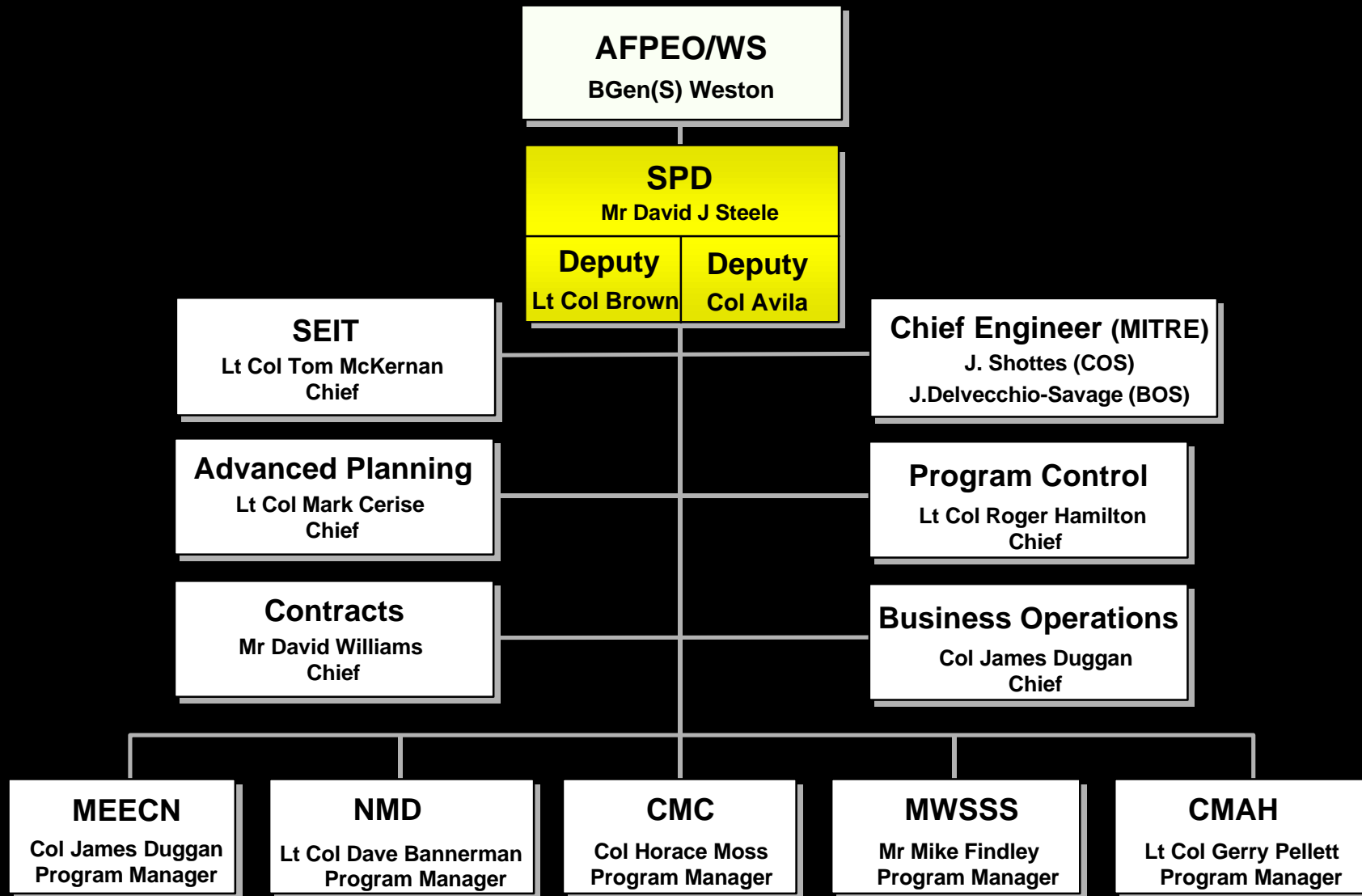
SND SPO Objectives

SND C² SPO

- ◆ Obj 1: Provide full service responsive life cycle support in a genuine team environment
- ◆ Obj 2: Provide robust technical support for development of architectures, roadmaps and requirements definition
- ◆ Obj 3: Rapidly incorporate new technology and evolving customer needs through the Spiral Development Process
- ◆ Obj 4: Deliver fully integrated C2 systems compliant with DII-AF and the C2 Architecture
- ◆ Obj 5: Adopt innovative business practices to reduce cycle time and cost of doing business

SND C² SPO Organization

SND C² SPO



Overview New Projects

SND C² SPO

◆ Clear Radar Upgrade

- Anticipated schedule
 - HERBB information posted: Spring 97
 - Contract award: 10 Oct 97
- Program value: >\$70M
- Customer: AF Space Command
- POC
 - Maj Woodward
 - ESC/NDWC (formerly ESC/TN-3)
 - (781) 377-9483

Industry Opportunity

SND C² SPO

◆ Project: Clear Radar Upgrade

- Objective of program: Replace aging mechanical detection and tracking radars at BMEWS Site III, Clear AS, AK
- Anticipated procurement approach
 - Sole source contract Raytheon Company, Raytheon Electronic Systems
 - Anticipated Engineer Change Proposals (ECPs):
 - Security System Installation
 - Communications System Transition and Integration
 - Anticipated contract type: Firm-fixed price award fee

Overview New Projects

SND C² SPO

◆ MEDAL - MWSSS Engineering Development and Logistics

- Anticipated schedule
 - Acquisition Strategy Panel: Feb 98
 - Draft RFP release: est Mar 98
 - RFP release: est Jul 98
 - Contract award: Est Feb 99
- Program value: >\$140M
- Customer: AF Space Command
- POC
 - Karen Farver
 - OO-ALC/PKME
 - (801) 777-9494

Industry Opportunity

SND C² SPO

◆ Project: MEDAL

- Objective of program: Follow-on contract to
- the ISISS (ITW/AA Sensors Integrated System Support) contract
- Anticipated procurement approach
 - Full and open competition for best value under streamlined source selection process
 - Anticipated contract type: Indefinite delivery/Indefinite quantity (IDIQ)

Overview New Projects

SND C² SPO

◆ **DIRECT - Defense IEMATS(Interim Emergency Message Automatic Transmission System) Replacement Command and Control Terminals**

- Anticipated schedule
 - HERBB information posted: Nov 97
 - Start one-pass with GTE: late Nov 97
 - Contract award: est Mar 98
- Program value: \$14M
- Customer: AF Space Command
- POC
 - Maj Morrissey
 - ESC/ND (formerly ESC/TGD)
 - (781) 377-5424

Industry Opportunity

SND C² SPO

◆ Project: DIRECT

- Objective of program: Production and deployment of a replacement system for existing IEMATS
- Anticipated procurement approach
 - Sole source to GTE
 - Very little to no small business opportunities (as prime or major sub) due to Top Secret requirements and required experience in nuclear command and control
 - Subcontracting opportunities to provide installation assistance at command and control centers and also security accreditation assistance
 - Anticipated contract type: Firm-fixed price

Overview New Projects

SND C² SPO

◆ ILES - ICBM Launch Control Center EHF (Extremely High Frequency) System

- Anticipated schedule
 - HERBB information posted: Spring 97
 - Draft documents completed: Nov 97
 - Contract award: Dec 98
- Program value: >\$50M
- Customer: AF Space Command
- POC
 - Capt Graham
 - ESC/ND (formerly ESC/TGD)
 - (781) 377-5418

Industry Opportunity

SND C² SPO

◆ Project: ILES

- Objective of program: Integration of the EHF satellite communication (SATCOM) capability into the Intercontinental Ballistic Missile (ICBM) Launch Control Centers (LCC)
- Anticipated procurement approach
 - Full and open competition resulting in a contract for EMD and 3 production options
 - Small business and subcontracting opportunities include: Radomes, Vaults, Excavation, Concrete and Security Systems
 - Anticipated contract type: To be determined

Overview New Projects

SND C² SPO

◆ Charge-Coupled Device (CCD) Camera Development and Procurement

- Anticipated schedule
 - HERBB information posted: Nov 98
 - Draft documents: Jul 99
 - Contract award: Nov 99
- Program value: >Estimated \$27.6M 3600/3080 in 00 POM
- Customer: AF Space Command
- POC
 - Maj Piazza
 - ESC/NDW
 - (617) 377-6371

Industry Opportunity

SND C² SPO

◆ Project: CCD Camera Development and Procurement

- Objective of program: Develop, produce, test and field 20 CCD cameras to replace current Ebsicon cameras.
- Anticipated procurement approach
 - Full and open competition for best value and streamlined source selection process
 - Anticipated contract type: Cost Plus

Overview New Projects

SND C² SPO

■ Modular Precision Angular Control System (MPACS) Replacement

- Anticipated schedule
 - HERBB information posted: Feb 99
 - Draft documents: Jul 99
 - Contract award: Nov 99
- Program value: >Estimated \$2.3M 3080 in 00 POM
- Customer: AF Space Command
- POC
 - Maj Piazza
 - ESC/NDW
 - (617) 377-6371

Industry Opportunity

SND C² SPO

◆ Project: MPACS Replacement

- Objective of program: Procures, integrates, installs and tests nine new MPACS at current GEODSS sites and procures one additional MPACS for the Relocatable Optical System (ROS)
- Anticipated procurement approach
 - Full and open competition for best value and streamlined source selection process
 - Anticipated contract type: Firm Fixed Price

Overview New Projects

SND C² SPO

◆ Relocatable Optical System (ROS I) Development

- Anticipated schedule
 - HERBB information posted: Oct 97
 - Draft documents: Apr 99
 - Contract award: Nov 99
- Program value: >Estimated \$8.2M 3600 in 00 POM
- Customer: AF Space Command
- POC
 - Maj Piazza
 - ESC/NDW
 - (617) 377-6371

Industry Opportunity

SND C² SPO

Project: ROS I

- ◆ Objective of program: Develop, integrate, test and field a Relocatable Electro-Optical Deep Space Surveillance (GEODSS) system
- ◆ Anticipated procurement approach
 - Full and open competition for best value and streamlined source selection process
 - Anticipated contract type: Firm Fixed Price, Incentive Fee

Overview New Projects

SND C² SPO

◆ Second Relocatable Optical System (ROS II)

- Anticipated schedule
 - HERBB information posted: Feb 02
 - Draft documents: Jul 02
 - Contract award: Oct 02
- Program value: >Estimated \$9.4M 3080 in 00 POM
- Customer: AF Space Command
- POC
 - Maj Piazza
 - ESC/NDW
 - (617) 377-6371

Industry Opportunity

SND C² SPO

◆ Project: ROS II

- Objective of program: Build, integrate, test and field a second Relocatable Electro-Optical Deep Space Surveillance (GEODSS) system but as a two telescope scope system
- Anticipated procurement approach
 - Full and open competition for best value and streamlined source selection process
 - Anticipated contract type: Firm Fixed Price, Incentive Fee

Overview New Projects

SND C² SPO

◆ Retrofit of Relocatable Optical System (ROS I)

- Anticipated schedule
 - HERBB information posted: Feb 02
 - Draft documents: Jul 02
 - Contract award: Oct 02
- Program value: >Estimated \$4.7M 3080 in 00 POM
- Customer: AF Space Command
- POC
 - Maj Piazza
 - ESC/NDW
 - (617) 377-6371

Industry Opportunity

SND C² SPO

◆ Project: ROS I Retrofit

- Objective of program: Procures and integrates a second telescope and required system hardware to standardize configuration with that of ROS II
- Anticipated procurement approach
 - Full and open competition for best value and streamlined source selection process
 - Anticipated contract type: Firm Fixed Price, Incentive Fee

Overview New Projects

SND C² SPO

◆ National Missile Defense (NMD) Lead System Integrator (LSI)

- Anticipated schedule
 - RFP information on WEB at <http://208.200.186.26:999>
 - Final RFP (execution phase) released: 14 Aug 97
 - Contract award: Apr 98
- NMD Program value: >\$4B
- Customer: US Space Command
- POC
 - Mr Briggs
 - ESC/NDB (formerly ESC/XRS)
 - (781) 377-8689

Industry Opportunity

SND C² SPO

◆ Project: NMD LSI

- Objective of program: Integration of all NMD components into a system capable of defending United States against limited ballistic missile threats
- Procurement approach
 - LSI concept definition phase (two contractors selected, UMDC and Boeing), then down select to single contractor resulting in LSI execution contract
 - 3+3 program (3 years development, then 3 years to deploy)
 - Small business and subcontracting opportunities exist
 - Contract types: CD Phase - FFP
Execution Phase - CPAF

Future Needs/Trends

SND C² SPO

- ◆ Technology
 - Migrate legacy system to DII COE
 - Leverage commercial technologies to the maximum extent practical
- ◆ Evolutionary Acquisition Strategies
 - Spiral development
 - CAIV (Cost as an independent variable)
 - Declining acquisition workforce/budgets

BACKUP

Strategic & Nuclear Deterrence (SND) Users Operational Missions

SND C² SPO

- ◆ Provide the NCA and Warfighters with integrated air, missile, space, and intelligence information which provides clear and unambiguous warning of attack on US and allied interests
- ◆ Provide response direction from the National Command Authorities to the Execution Forces
- ◆ Integrate Battle Management/Command and Control elements of the National Missile Defense into the USCINCSpace Command Structure
- ◆ Provide USCINCSpace the ability to command and control assigned forces in support of theater commanders worldwide

DETECT

ASSESS

WARN

EXECUTE